

i) causing a second communications module, which is to be inserted into the system, to transmit a first signal in a set-up mode; and

(ii) if said first signal is detected by at least two said modules capable of communicating directly with each other, causing said second communications module, by means of a second signal from at least one said control module updating the address of one of said modules which detected said first signal, to be installed to communicate directly, when in said communication mode, with two said modules which detected said first signal, including the module whose address was updated by said second signal.

2. A method according to claim 1, wherein the step of causing said communications module to be inserted to communicate directly with said two modules comprises updating the address of said modules adapted to transmit messages in the system subsequently to the communications module to be inserted.

3. A method according to claim 2, wherein said addresses are consecutively numbered, and said updating step comprises incrementing the numbers of the addresses of said modules adapted to transmit messages in the system subsequently to the communications module to be inserted.

4. A method according to claim 1, further comprising the step of testing reliability of communications links between said communications module to be inserted and the two modules with which it is to communicate directly when in said communication mode.

5. A method according to claim 4, wherein the step of testing reliability comprises exchanging at least one message between said communications module to be inserted and said two modules.

7. A method of automatically setting up a wireless communication system comprising at least one control module and a plurality of communications modules, wherein the system is adapted to transmit messages either directly or indirectly between modules, and wherein each said communications module is adapted to receive a wireless message and transmit said message to a further communications module or to a said control module, and is

Best Available Copy

UDL1P072

-2-

programmed with a respective address identifying modules with which it communicates messages directly when in a communication mode, the method comprising:

- (i) causing a first communications module to transmit a first signal in a set-up mode;
- (ii) if said first signal is received by at least one said control module, causing said first communications module, by means of a second signal from a said control module which received said first message, to communicate in said communication mode directly with said control module which received said first message;
- (iii) causing a second communications module to transmit a third signal in a set-up mode;
- (iv) if said third signal is detected by said first communications module and said control module which received said first message, causing, by means of a fourth signal from said control module, said second communications module to communicate directly with the first communications module and said control module, and said first communications module to communicate directly with said second communications module, in said communication mode.

8. A method according to claim 7, further comprising the step of inserting at least one further communications module by means of a method according to claim 1.

9. A method according to claim 7, further comprising the step of testing reliability of communications links between modules intended to communicate directly with each other.

10. A method according to claim 7, further comprising the step of changing the or each said communications module from said set-up mode to said communications mode by means of a signal from at least one said control module.